

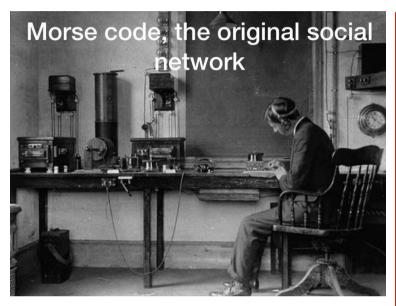
# HF Happenings 833

Volume 17, Issue 43, the week of 4 February 2019

You can now download your copy of HF Happenings from <a href="www.sarl.org.za/hf\_happenings.asp">www.sarl.org.za/hf\_happenings.asp</a>
Southern African Fauna and Flora <a href="https://zsfaunaandflora.wordpress.com/">https://zsfaunaandflora.wordpress.com/</a>

ZS SOTA <a href="https://zssota.wordpress.com">https://zssota.wordpress.com</a>

5 MHz (60 metre) allocations <a href="http://www.sarl.org.za/public/contests/contestrules.asp">http://www.sarl.org.za/public/contests/contestrules.asp</a>
<a href="https://en.wikipedia.org/wiki/60-meter-band#External-links">https://en.wikipedia.org/wiki/60-meter-band#External-links</a>



# **DXCC's Most Wanted – ClubLog**

The "DXCC Most Wanted" entities list has been updated on ClubLog as of 29 January. The list contains 340 entities and here are the top 10 entities:

- 1. P5 DPRK (North Korea)
- 2. 3Y/B Bouvet Island
- 3. FT5/W Crozet Island
- 4. CEOX San Felix Islands
- 5. BS7H Scarborough Reef
- 6. BV9P Pratas Island
- 7. KH7K Kure Island
- 8. KH3 Johnston Island
- 9. FT5/X Kerguelen Island
- 10. 3Y/P Peter 1 Island

# February

4 - World Cancer Day; Closing date for QRP contest logs

7 to 10 - Up the Creek Music Festival, Swellendam

8 and 9 - SARL Council Strategic Meeting, NARC

9 - VHF/UHF Workshop, NARC

9 and 10 - National Field Day; CQ WW WPX RTTY Contest; PACC Contest (The Netherlands)

11 - International Day for Women and Girls in Science

13 - World Radio Day

14 - Valentine's Day

15 - Closing date for PEARS VHF logs

16 and 17 - ARRL DX CW Contest

18 - Closing date NFD logs; Closing date for AWA CW Activity Day logs

19 - Highway ARC Monthly Meeting

21 - The sinking of the SS Mendi - 05:00 21 February 1917

22 - Closing date for March Radio ZS

23 and 24 - Clarens Craft Beer Festival

23 - West Rand Flea Market

24 - SARL RTTY Contest

27 - International Milk Tart Day

28 - Closing date for SARL Hall of Fame nominations; closing date for AMSAT SA Space Symposium early bird registration

Four changes this month. San Felix Islands (CEOX) and Scarborough Reef (BS7H) switched places in the 4<sup>th</sup> and 5<sup>th</sup> position. Kerguelen Island (FT5/X) moved from number 10 to number 9 and Macquarie Island (VK0M) dropped to 11 and Peter 1 Island (3Y/P) moved into number 10. The complete "DXCC Most Wanted" entities list is available at <a href="https://secure.clublog.org/mostwanted.php">https://secure.clublog.org/mostwanted.php</a>

### **Year-long activities**

Gary, ZL2IFB, writes: "You might spare a paragraph for the annual DX challenges - in particular the CQ DX Marathon <a href="https://www.dxmarathon.com/">http://www.dxmarathon.com/</a> and others such as the CDXC DX Marathon Challenge <a href="https://clublog.org/league.php?cdxc-marathon=1">https://clublog.org/league.php?cdxc-marathon=1</a> and of course the ARRL International Grid Chase <a href="https://igc.arrl.org/">https://igc.arrl.org/</a>. These are year-long competitions, akin to running marathons as opposed to sprints. The idea is to work the world in the course of the calendar year. Unlike the frantic dash to make QSOs in the few hours of a typical contest, the challenges are more laid-back affairs, but no less competitive. Whenever fresh

meat appears on the bands in the form of a new DXpedition or other exotica such as Monk Apollo and 4U1UN, challenge entrants gunning for a podium finish are usually among the first to work them just in case they quickly go QRT (as happened to TT8KO). Challengers also participate in contests to fill empty band-mode slots or simply for the fun of it. Most of the year, though, is spent in regular DXing, chatting with pals and other challenge entrants in the friendly global DX community. Being global affairs, there are mini-challenges-within-challenges to win individual modes, bands, continents, countries and clubs. There is plenty of room for QRPers, remote station ops, conventional contesters, corporate slaves, HOA cave-dwellers and others. Club Log makes it easy to track and motivate performance during the year. Have you got the stamina to make it to the finish line?"

# Logging programs for digital modes

Scott, N3FJP, has updated his suite of logging programs for digital modes <a href="http://www.n3fjp.com/upgradestepscontest.html">http://www.n3fjp.com/upgradestepscontest.html</a> to include compatibility with VK3AMA's JTAlert software <a href="https://hamapps.com/">https://hamapps.com/</a>. He is also made significant changes to his *State QSO Party* programs. See his website for more information <a href="https://www.n3fjp.com/news/news2018-09-21.html">https://www.n3fjp.com/news/news2018-09-21.html</a>.

#### multiFlex, a new feature

Flex Radio Systems has announced a new feature, multiFlex, which enables two operators to use a single Flex Radio Systems transceiver simultaneously. This has immediate applicability in the mult-1, multi-2, and multi-multi contesting categories where it's a common advanced strategy to use two or more operators to search and pounce and run a band at the same time. For more information, see the Flex Radio Systems website <a href="https://www.flexradio.com/multiflex/">https://www.flexradio.com/multiflex/</a>.

# **Worked Zone 38 Award**

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Lesotho, 7P. The 7P8LB Team is now well established as they near their departure date in a few weeks' time. Svein, LA3BO, Piotr, LA7RRA, Rune, LA7THA (Team Leader), Arne, LA7WCA, Svein Jarle, LA9KKA, Thor, LA9VPA, Harald, LB2HG, Chris, OE5CWO and Phillipp, OE7PGI will be active as 7P8LB from Molengoane Lodge (WW Loc. KG30VO), Lesotho, between 8 and 16 March. They plan to have 2 or 3 stations running 24/7 on all HF bands using CW, SSB, with the focus on low bands and FT8. QSL Manager is Charles, MOOXO.

QSL is via M00XO's OQRS <a href="https://clublog.org/logsearch/7P8LB">www.m0oxo.com/oqrs/logsearch.php</a>. Log search can be found on Clublog: <a href="https://clublog.org/logsearch/7P8LB">https://clublog.org/logsearch/7P8LB</a>. Not in log: Use the busted call sign facility on the OQRS page. For more details and updates, see: <a href="http://www.la9vpa.com/7p8lb/index.html">https://www.la9vpa.com/7p8lb/index.html</a>

# **African DX**

Contacts with stations on the African continent count towards the SARL's All Africa Award (www.sarl.org.za/public/awards/awards.asp)



Burundi, 9U. Shabu, MOKRI will be active as 9U4RI between 15 and 25 February operating CW and SSB on 40 to 10 meters. QSL via home call, direct.

Uganda, 5X. The Italian DXpedition Team (IDT) will be using the following callsigns for their DXpedition to Uganda between 13 and 25 March: 5X3C (not 5X0T) for CW, SSB and RTTY 5X3E (not 5X0X) for FT8 QSL via I2YSB, direct, OQRS or LoTW. For more details on the IDT team and an online survey for "needs/wants", see

their Web page at <a href="http://www.i2ysb.com/idt">http://www.i2ysb.com/idt</a>

# **African Islands**

**IOTA** frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

Rodriguez Island, 3B9. Vlad, UA4WHX, has active as 3B8VB from Rodriguez Island (AF-017). As always, the length of his stay is unknown. Look for activity on 40, 30, 20 and 17 metres using mostly CW with some SSB. QSL via UA4WHX.



Madeira, CT3. Henning, OZ1BII/OZ2I, will be active as CT9ABR from Porto Moniz, Maderia (AF-014) during the ARRL International DX CW Contest (16 and 17 February) as a Single-Op/Low-Power entry. He will be on the island between 14 and 17 February. Activity outside of the contest, he will sign CT3/OU2I and will only be CW only on the WARC-79 bands. QSL via OZ2I, direct or by the Bureau. Watch the following Web page for updates https://sites.google.com/view/oz2i-oz1bii/news

Cape Verde, D4. Philip, HB9HFD will be active from San Pedro as D44TAQ from 17 to 22 February with digital activity on 40 to 10 metres. QSL via LoTW.

Lampedusa Island, IG9. Members of the ARI Modena will be active as IG9MO from Lampedusa Island (AF-019) between 28 March and 2 April. Activity will be on various HF bands using CW, SSB, RTTY and other digital modes. They plan to be in the CQ WW WPX SSB Contest (30 and 31 March.) QSL via info on QRZ.com.

Djibouti, J2. The J20DX DXpedition team now includes Col MM0NDX, Jonathan MM0OKG and Christian EA3NT. They will operate with three stations as J20DX/p from the rare Sept-Freres Islands (AF-059) indicatively on 16 to 18/19 April and after that from Moucha Island (AF-053) for about 24 hours until early 20 April. They will also be active as J20DX/mm while at sea, and as J20DX from the mainland. Bookmark <a href="https://j20dx.com/">https://j20dx.com/</a> for updates. QSL via Club Log's OQRS and LoTW; direct cards via M0SDV.

Los Farallones Island, CN. Toufelaz, CN8QY, is planning to lead a team to activate Los Farallones Island, Morocco (AF-118, new IOTA), between 25 and 30 July using the call sign 5C9A. the operators mentioned are Zidane, CN8CE, Toufelaz, CN8QY, Hamid, CN8HDZ, CN8PA, CN8PA, Ferti, CN8RAH, Leopoldo, I8LWL, Bruno, IK2PZG, Simon, IZ7ATN, Col, MMONDX and possibly 1 or 2 more. They are looking for support. Details are on QRZ.com.

#### Word to the Wise

Rat-race combiner — a device used to combine two in-phase signals with very minimal loss. It's constructed as a 1.5 wavelength ring of transmission line with input ports located 1/2 wavelength from one another, and an output port located at 1/4 wavelength between them <a href="https://en.wikipedia.org/wiki/Rat-race coupler">https://en.wikipedia.org/wiki/Rat-race coupler</a>. The transmission line should have a characteristic impedance of 1.44 times the system impedance. For example, for 50 ohm sources and loads, transmission line with a 72 ohm impedance should be used for the ring.

# **Lectures on Radio Technology, History, and Applications**

The MIT Radio Society (W1MX) put on a series of "Lectures on Radio Technology, History, and Applications" during the January IAP (Independent Activities Period), and they're available for your viewing pleasure on YouTube. Topics include SDRs, Propagation, Radar, and Space Weather. www.youtube.com/playlist?list=PLWwWW7rc6eKh8xfLl4Pac7W9l54h7oj-B&disable polymer=true

# Compare the signal to noise ratio

SP2BPD produced a YouTube video on how he uses a dual-channel SDR to compare the signal to noise ratio on two different receive antennas on 160 and 80 meters <a href="www.youtube.com/watch?v=UzP03mZVLvE">www.youtube.com/watch?v=UzP03mZVLvE</a>. Linrad is one of the tools that he uses for this task <a href="www.sm5bsz.com/linuxdsp/usage/newco/newcomer.htm">www.sm5bsz.com/linuxdsp/usage/newco/newcomer.htm</a>.

# **Contest Calendar**

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 4 to 11 February 2019

RSGB 80 m Club SSB Championship 20:00 - 21:30 UTC 4 February Geographic Focus: United Kingdom

Participation: Worldwide Awards: United Kingdom

Mode: SSB Bands: 80 m Only Classes: (none)

Exchange: RS and serial no QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: (see rules)

Submit logs by: 23:59 UTC 5 February 2019
Upload log at: <a href="www.rsgbcc.org/cgi-bin/hfenter.pl">www.rsgbcc.org/cgi-bin/hfenter.pl</a>

Mail logs to: (none)

Find rules at: <a href="https://www.rsgbcc.org/hf/rules/2019/r80">www.rsgbcc.org/hf/rules/2019/r80</a>

mcc.shtml

**ARS Spartan Sprint** 

02:00 - 04:00 UTC 5 February

Geographic Focus: North America

Participation: Worldwide

Mode: CW

Bands: 80, 40, 20, 15, 10 m Classes: Skinny; Tubby Max power: 5 watts

Exchange: RST, state, province or country and

power

Work stations: Once per band Submit logs by: 7 February 2019

E-mail logs to: <a href="mailto:spartansprint@yahoo.com">spartansprint@yahoo.com</a>

Mail logs to: (none) Find rules at:

http://arsqrp.blogspot.com/2009/02/so-whats-

spartan-sprint-and-how-do-i.html

**ORP Fox Hunt** 

02:00 - 03:30 UTC 6 February Geographic Focus: United States Participation: Worldwide

Mode: CW Bands: 40 m Only

Classes: Single Op - fox or hound

Max power: 5 watts

Exchange: RST, state, province or country, name

and power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points Submit logs by: 03:30 UTC 7 February 2019

E-mail logs to: (see rules)
Mail logs to: (none)
Find rules at:

www.qrpfoxhunt.org/winter rules.htm

Phone Fray

02:30 - 03:00 UTC 6 February Geographic Focus: North America

Participation: Worldwide

Mode: SSB

Bands: 160, 80, 40, 20, 15 m

Classes: Single Op Max power: 100 watts

Exchange: NA: Name and state, province or

country; non-NA: Name Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE)

once per band

Score Calculation: Total score = total QSO points x

total mults

Submit logs by: 03:00 UTC 8 February 2019

E-mail logs to: (none)

Post log summary at: www.3830scores.com

Mail logs to: (none) Find rules at:

www.perluma.com/Phone Fray Contest Rules.pdf

**CWops Mini-CWT Test** 

13:00 - 14:00 UTC and 19:00 - 20:00 UTC 6 February

and 03:00 - 04:00 UTC 7 February Geographic Focus: Worldwide Participation: Worldwide Awards: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m Classes: Single Op - QRP, low or high

Max power: HP: >100 watts; LP: 100 watts; QRP: 5

watts

Exchange: Member: Name and member no; non-Member: Name and state, province or country

Work stations: Once per band QSO Points: 1 point per QSO Multipliers: Each call once

Score Calculation: Total score = total QSO points x

total mults

Submit logs by: 04:00 UTC 9 February 2019 Post log summary at: <a href="https://www.3830scores.com">www.3830scores.com</a>

Mail logs to: (none)

Find rules at: <a href="https://cwops.org/cwops-tests/">https://cwops.org/cwops-tests/</a>

**UKEICC 80 m Contest** 

20:00 - 21:00 UTC 6 February Geographic Focus: Europe Participation: Worldwide

Mode: SSB Bands: 80 m Only

Classes: Single Op Connected - QRP, low or high; Single Op Unconnected - QRP, low or high

Max power: HP: 1 500 watts; LP: 100 watts; QRP: 5

watts

Exchange: 4-Character grid square

QSO Points: 1 point per 500 km (10 pts max); multiply QSO points by 2 if low power station; multiply QSO points by 4 if QRP station

Multipliers: (none)

Score Calculation: Total score = total QSO points Submit logs by: 22:00 UTC 6 February 2019

E-mail logs to: (none)

Upload log at: <a href="http://logs.ukeicc.com/cgi-">http://logs.ukeicc.com/cgi-</a>

bin/hfenter.pl
Mail logs to: (none)

Find rules at: www.ukeicc.com/which-

contest/which-contest-ukeicc-80 m-contests-rules

NRAU 10 m Activity Contest

 $18:\!00$  -  $19:\!00$  UTC (CW) and  $19:\!00$  -  $20:\!00$  UTC (SSB) and  $20:\!00$  -  $21:\!00$  UTC (FM) and  $21:\!00$  -  $22:\!00$  UTC 7

February (Dig)

Geographic Focus: Nordic Europe

Participation: Worldwide

Mode: CW, SSB, FM, Digital

Bands: 10 m Only Classes: (none)

Exchange: RS(T) and 6-character grid square

QSO Points: (see rules) Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 21 February 2019

Upload log at:

http://ua9qcq.com/en/submit log.php?lang=en

Mail logs to: (none)

Find rules at: <a href="www.nrau.net/activity-">www.nrau.net/activity-</a>

contests/below-30mhz.html

SKCC Sprint Europe

20:00 - 22:00 UTC 7 February Geographic Focus: Europe Participation: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: (none)

Exchange: RST, state, province or country, name

and SKCC no or power Work stations: Once per band QSO Points: (see rules)

Multipliers: Each state, province, or country once Score Calculation: Total score = (total QSO points x

total mults) and bonus points Submit logs by: 14 February 2019 E-mail log summary to: (none)

Post log summary at:

www.skccgroup.com/operating activities/skse/sub

mit-display.php?submit id=165

Mail logs to: (none) Find rules at:

www.skccgroup.com/operating activities/skse/

**NCCC RTTY Sprint** 

01:45 - 02:15 UTC 8 February Geographic Focus: North America

Participation: Worldwide

Mode: RTTY Bands: (see rules) Classes: (none)

Exchange: Serial no, name and QTH

Score Calculation: Total score = total QSO points x

total mults

Submit logs by: 10 February 2019

E-mail logs to: (none)

Post log summary at: <a href="https://www.3830scores.com/">www.3830scores.com/</a>

Mail logs to: (none)

Find rules at: www.ncccsprint.com/rttyns.html

**QRP Fox Hunt** 

02:00 - 03:30 UTC 8 February Geographic Focus: United States Participation: Worldwide Mode: CW Bands: 80 m Only

Classes: Single Op - fox or hound

Max power: 5 watts

Exchange: RST, state, province or country, name

and power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points Submit logs by: 03:30 UTC 9 February 2019

E-mail logs to: (see rules)
Mail logs to: (none)

Find rules at:

www.qrpfoxhunt.org/winter\_rules.htm

NCCC Sprint Ladder

02:30 - 03:00 UTC 8 February Geographic Focus: North America

Participation: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: Single Op Max power: 100 watts

Exchange: Serial no, name and QTH Work stations: Once per band

QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station
Multipliers: Each US state (including KL7 and KH6) once per band; Each VE province once per band; Each North American country (except W/VE) once

per band

Score Calculation: Total score = total QSO points x

total mults

Submit logs by: 10 February 2019

E-mail logs to: (none)

Post log summary at: <a href="https://www.3830scores.com/">www.3830scores.com/</a>

Mail logs to: (none)

Find rules at: www.ncccsprint.com/rules.html

CQ WW RTTY WPX Contest

00:00 UTC 9 February to 23:59 UTC 10 February

Geographic Focus: Worldwide Participation: Worldwide Awards: Worldwide

Mode: RTTY

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op All Band - QRP, low or high; Single Op Single Band - QRP, low or high; Single Op Overlays – tri-bander or rookie; Multi-One – low or

high; Multi-Two; Multi-Unlimited

Max operating hours: Single Op: 30 hours, off times

of at least 60 minutes; Multi-Op: 48 hours

Max power: HP: 1500 watts; LP: 100 watts; QRP: 5

watts

Exchange: RST and serial no Work stations: Once per band

QSO Points: 1 point per QSO with same country on 20, 15, 10 m; 2 points per QSO with same country on 80, 40 m; 2 points per QSO with different countries on same continent on 20, 15, 10 m; 4 points per QSO with different countries on same continent on 80, 40 m; 3 points per QSO with different continent on 20, 15, 10 m; 6 points per QSO with different continent on 80, 40 m

Multipliers: Each prefix once

Score Calculation: Total score = total QSO points x

total mults

Submit logs by: 23:59 UTC 15 February 2019

E-mail logs to: rtty@cqwpx.com

Upload log at: <a href="https://www.cqwpx.com/logcheck/">www.cqwpx.com/logcheck/</a> Mail logs to: CQ WPX RTTY Contest, PO Box 1877,

Los Gatos, CA 95031-1877, USA

Find rules at: www.cqwpxrtty.com/rules.htm

**SARL Field Day Contest** 

10:00 UTC 9 February to 10:00 UTC 10 February

Geographic Focus: South Africa Participation: Worldwide Mode: CW, SSB, Digital

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single-Op Field - QRP or high; Multi-Op Field - QRP or high; Ultra-Light Portable; General Max power: QRP: 5 watts; non-QRP: >5 watts Exchange: Number of transmitters, Category (see

rules) and Province (or "DX")

Work stations: Once per band per mode

QSO Points: (see rules)
Multipliers: (see rules)
Score Calculation: (see rules)
Submit logs by: 17 February 2019
E-mail logs to: contest@sarl.org.za

Mail logs to: None Find rules at:

www.sarl.org.za/Web3/Members/DoDocDownload

.aspx?X=201812010726248P1Jfp4GJT.PDF

Asia-Pacific Spring CW Sprint 11:00 - 13:00 UTC 9 February Geographic Focus: Asia/Pacific Participation: Worldwide

Mode: CW Bands: 40, 20 m

Classes: Single Op Single Radio

Max power: legal limit in each country

Exchange: RST and serial no Work stations: Once per band

QSO Points: Asia-Pacific: 1 point per QSO; Non-Asia-Pacific: 1 point per QSO with an Asia-Pacific station

Multipliers: Each prefix once

Score Calculation: Total score = total QSO points x

total mults

Submit logs by: 16 February 2019 E-mail logs to: <a href="mailto:apsprint@jsfc.org">apsprint@jsfc.org</a>

Mail logs to: (none)

Find rules at: <a href="http://jsfc.org/apsprint/aprule.txt">http://jsfc.org/apsprint/aprule.txt</a>

SKCC Weekend Sprintathon

12:00 UTC 9 February to 24:00 UTC 10 February

Geographic Focus: Worldwide Participation: Worldwide Awards: Worldwide

Mode: CW

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: (none)

Max operating hours: 24

Exchange: RST, state, province or country, name

and SKCC no or none

Work stations: Once per band QSO Points: 1 point per QSO Bonus Points: (see rules)

Multipliers: Each state, province, or country once Score Calculation: Total score = (total QSO points x

total mults) and bonus points Submit logs by: 17 February 2019

Post log summary at:

www.skccgroup.com/operating activities/weekend

sprintathon/submit-display.php

Mail logs to: (none)
Find rules at:

www.skccgroup.com/operating activities/weekend

\_sprintathon/

**KCJ Topband Contest** 

12:00 UTC 9 February to 12:00 UTC 10 February

Geographic Focus: Worldwide Participation: Worldwide

Mode: CW Bands: 160 m Only Classes: Single Op Multi-Op

Exchange: JA: RST and Prefecture/District Code; non-JA: RST and Continent Code (AF, AS, EU, NA,

OC, SA)

QSO Points: JA: 1 point per QSO with JA station; JA: 5 points per QSO with non-JA station; Non-JA: 1

point per QSO with JA station

Multipliers: Each JA prefecture/district; JA: each

continent

Score Calculation: Total score = total QSO points x

total mults

Submit logs by: 28 February 2019
E-mail logs to: 2019toptest@kcj-cw.com

Mail logs to: T. Nakamura, Shinden-Nakamachi 4-7,

Daito city,nOsaka 574-0056, Japan

Find rules at: www.kcj-

cw.com/contest/19 toptest rules e.pdf

**Dutch PACC Contest** 

12:00 UTC 9 February to 12:00 UTC 10 February

Mode: CW, SSB

Bands: 160, 80, 40, 20, 15, 10 m

Classes: SOAB – CW, SSB or mixed – low or high; SOAB Mixed QRP; Multi-One Mixed - PA only; Multi-Two Mixed - PA only; Multi-Unlimited Mixed; Single Op Single Band CW; Single Op Single Band

SSB; SWL

Max power: HP: >100 watts; LP: 100 watts; QRP: 5

watts

Exchange: PA: RS(T) and province; non-PA: RS(T)

and serial no

Work stations: Once per band per mode QSO Points: 1 point per QSO with a PA station Multipliers: PA provinces once per band per mode Score Calculation: Total score = total QSO points x

total mults

Submit logs by: 15 March 2019 E-mail logs to: <a href="mailto:pacc@dutchpacc.com">pacc@dutchpacc.com</a>

Upload log at:

http://server4.veronict.nl:81/WebEditor/app
Mail logs to: PACC Contest Manager, c/o VERON
Central Bureau, PO Box 1166, 6801 BD Arnhem, The

Netherlands

Find rules at: http://pacc.veron.nl/

YLRL YL-OM Contest

14:00 UTC 9 February to 02:00 UTC 11 February

Geographic Focus: Worldwide Participation: Worldwide Mode: CW/Digital, SSB

Bands: All Classes: (none)

Max operating hours: 24 hours

Max power: HP: >100 watts; LP: 100 watts; QRP: 5

watts

Exchange: QSO no, RS(T) and section, province or

country

Work stations: Once per band per mode

QSO Points: 1 point per QSO

Multipliers: Each section, province, country once per mode; Power factor: x 3 for QRP, x 1.5 for LP Score Calculation: Total score = total QSO points x

total mults x power factor Submit logs by: 12 March 2019 E-mail logs to: ac7uh@arrl.net

Mail logs to: Barbara Yasson, AC7UH, 13205 NE 5th

Ave., Vancouver, WA 98685, USA

Find rules at: <a href="http://ylrl.org/index.php/contests-">http://ylrl.org/index.php/contests-</a>

and-dx-awards

**OMISS QSO Party** 

15:00 UTC 9 February to 15:00 UTC 10 February

Mode: SSB

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op

Exchange: RS, state, province or DX and OMISS no if

member

Work stations: Once per band

QSO Points: 2 points per QSO with OMISS member; 1 point per QSO with non-member; Bonus: add 500

points to score if mobile for entire contest Multipliers: Each US state once; Each VE province

once; 1 DX country once

Power: <5 W = x 3, 100 W = x 2, >100 W = x 1 Score Calculation: Total score = (total QSO points x total mults x power mult) and bonus points

Submit logs by: 1 March 2019

E-mail logs to: (none)
Upload log at:

www.omiss.net/Facelift/qsoElectronic.php

Mail logs to: (none)

Find rules at: <a href="https://www.omiss.net/Facelift/qsoparty.php">www.omiss.net/Facelift/qsoparty.php</a>

FISTS Winter Unlimited Sprint 17:00 - 21:00 UTC 9 February

Geographic Focus: United States/Canada

Participation: Worldwide Awards: United States/Canada

Mode: CW

Bands: 80, 40, 20, 15, 10 m Classes: QRP; QRO; Club

Max power: QRO: 100 watts; QRP: 5 watts Exchange: FISTS: RST, state, province or country, first name and FISTS no; non-FISTS: RST, state, province or country, first name and power

Work stations: Once per band

QSO Points: 5 points per QSO with FIST member; FIST members: 2 points per QSO with non-FIST

member

Multipliers: Each US state and VE province once;

Each DXCC country once

Score Calculation: Total score = total QSO points x

total mults

Submit logs by: 11 March 2019 E-mail logs to: <a href="mailto:kc2lsd@fistsna.org">kc2lsd@fistsna.org</a>

Mail logs to: FISTS Sprint Log, c/o Cody Codianni KC2LSD, 413 Martin Court, Leonardo, NJ 07737-

1317, USA Find rules at:

http://fistsna.org/operating.html#sprints

RSGB 1,8 MHz Contest 19:00 - 23:00 UTC 9 February

Mode: CW Bands: 160 m Only

Classes: Single Op - UK or overseas - assisted or

unassisted

Max power: 400 watts

Exchange: UK: RST, serial no and district code; non-

UK: RST and serial no

QSO Points: 2 points per QSO; 5 additional points for first QSO with each UK district; UK stations: 5 additional points for first QSO with each country

outside of UK Multipliers: (none) Score Calculation: Total score = total QSO points Submit logs by: 23:59 UTC 10 February 2019 Upload log at: <a href="https://www.rsgbcc.org/cgi-bin/hfenter.pl">www.rsgbcc.org/cgi-bin/hfenter.pl</a>

Mail logs to: (none) Find rules at:

www.rsgbcc.org/hf/rules/2019/r160m.shtml

Balkan HF Contest

13:00 - 17:00 UTC 10 February

Mode: CW, SSB Bands: 80, 40 m

Classes: Category A; Category B

Max power: Cat A: 1 000 W input; Cat B: 10 W input

Exchange: RS(T) and QSO no Work stations: Once per band

QSO Points: 1 point per QSO with category A; 2

points per QSO with category B

Multipliers: Each Balkan prefix once per band Score Calculation: Total score = (total 80 m QSO points x total 80 m mults) and (total 40 m QSO

points x total 40 m mults)

Submit logs by: 17 February 2019

E-mail logs to: (none) Upload log at:

www.hamyo.ro/balkanhf2019/upload log.php

Mail logs to: (none)

Find rules at: http://hamyo.ro/balkanhf2019/

CQC Winter QSO Party

01:00 - 02:59 UTC 11 February Geographic Focus: Worldwide Participation: Worldwide

Mode: CW

Bands: 80, 40, 20 m Classes: (none) Max power: 5 watts

Exchange: RST and state, province or country

Work stations: Once per band

QSO Points: 1 point per QSO; Bonus: 5 points per

QSO with W0CQC or N0CQC

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 13 March 2019 E-mail logs to: <a href="mailto:vkumagai@q.com">vkumagai@q.com</a>

Mail logs to: (none) Find rules at:

www.coloradogrpclub.org/contests/winter.htm

4 States QRP Group Second Sunday Sprint

01:00 - 03:00 UTC 11 February Geographic Focus: North America

Participation: Worldwide

Mode: CW, SSB

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op

Exchange: Member: RS(T), state, province or country and member no; Non-member: RS(T),

state, province or country and power

Work stations: Once per band

QSO Points: 1 point per QSO with non-member; 2

points per QSO with member

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 13 February 2019

E-mail logs to: (none)

Post log summary at: <a href="http://qrpcontest.com/4sqrp">http://qrpcontest.com/4sqrp</a>

Mail logs to: (none)

Find rules at: www.4sqrp.com/SSS/sss\_rules.pdf

ARRL School Club Roundup

13:00 UTC 11 February to 23:59 UTC 15 February

Geographic Focus: Worldwide Participation: Worldwide Mode: CW, Phone, RTTY/Digital Bands: All, except 60, 30, 17, 12 m

Classes: Single Op (I); Club/Multi-Op (C); School

Club/Group (S)

Max operating hours: 24 hours total; 6 hours out of any 24-hour period with off times of at least 30

minutes

Exchange: RS(T), Class (I, C or S) and state, province

or country

Work stations: Once per mode

QSO Points: 1 point per phone QSO; 2 points per

CW/RTTY/digital QSO

Multipliers: States and VE provinces and DXCC countries and (2x class C QSOs) and (5x class S

QSOs)

Score Calculation: Total score = total QSO points x

total mults

Submit logs by: 2 March 2019

Post log summary at:

http://contests.arrl.org/scrscoresubmission.php
Mail logs to: School Club Roundup; c/o LIMARC; PO

Box 392; Levittown, NY 11756; USA

Find rules at: www.arrl.org/school-club-roundup

# **Operating Tip**

FT8 - Take Advantage of It Without Using It - regardless of how you feel about using FT8 for making contacts, you can use all of the activity and automated signal reporting to help understand what bands are currently open. You can become familiar with the pskreporter.info website <a href="http://pskreporter.info/">http://pskreporter.info/</a>, where an interactive map <a href="https://www.pskreporter.info/pskmap.html">https://www.pskreporter.info/pskmap.html</a> can show you various bands and paths that are open, relative signal levels and so on.

# Using voice recognition to control radio settings

Icom engineers were testing different methods of using voice recognition to control radio settings and some of the results were presented at the Tokyo Hamfair <a href="http://www.fbnews.jp/201810/fblabo\_en/">http://www.fbnews.jp/201810/fblabo\_en/</a>. Two methods of control were explored. In the "direct" case, hardware attached to the radio had all of the necessary processing to directly control the radio. In the "cloud" case, they built an Alexa skill, which runs in the cloud to communicate with a Raspberry Pi connected locally to an Icom radio. The radio was controlled by speaking phrases such as, "Alexa, set the frequency to 7 megahertz."

#### **RTTY and FSK**

JA7UDE released an external driver program that allows the popular RTTY software MMTTY to perform FSK keying <a href="https://www.qsl.net/ja7ude/tinyfsk/index.html">https://www.qsl.net/ja7ude/tinyfsk/index.html</a>. With the addition of his program and a little configuration, you'll be able to use K3NG's TinyFSK software <a href="http://www.frontiernet.net/~aflowers/tinyfsk/">http://www.frontiernet.net/~aflowers/tinyfsk/</a> with MORTTY hardware <a href="http://hamprojects.info/mortty/">http://hamprojects.info/mortty/</a>, or build your own.

#### HF and Ice sheets

At HF frequencies, ice sheets are relatively transparent. Researchers exploit this characteristic to sound the surface of landmasses covered in ice using various towed-behind antennas and airplanes to determine the ice thickness <a href="https://www.mdpi.com/2076-3263/8/5/182/htm">https://www.mdpi.com/2076-3263/8/5/182/htm</a>. Anecdotally, radials for HF antennas placed on the surface of ice have been found to behave more like elevated radials.

#### **Next Week's Contests**

NAQCC CW Sprint, 01:30 - 03:30 UTC 13 February QRP Fox Hunt, 02:00 - 03:30 UTC 13 February

Phone Fray, 02:30 - 03:00 UTC 13 February

CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 13 February and 03:00 - 04:00 UTC 14 February

RSGB 80 m Club Championship, Data, 20:00 - 21:30 UTC 13 February

PODXS 070 Club Valentine Sprint, 00:00 - 23:59 UTC 14 February

NCCC RTTY Sprint 01:45 - 02:15 UTC 15 February

QRP Fox Hunt, 02:00 - 03:30 UTC 15 February

NCCC Sprint Ladder, 02:30 - 03:00 UTC 15 February

ARRL International DX CW Contest, 00:00 UTC 16 February to 24:00 UTC 17 February

Russian PSK WW Contest, 12:00 UTC 16 February to 11:59 UTC 17 February

Feld Hell Sprint, 19:00 - 20:59 UTC 17 February

AWA Amplitude Modulation QSO Party, 23:00 UTC 16 February to 23:00 UTC 17 February

Run for the Bacon QRP Contest, 02:00 - 04:00 UTC 18 February

Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, DxCoffee, Southgate ARC News, DX World and the Amateur Radio Newsletter